

09/214453
STN Search Summary

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FILE 'CAPLUS' ENTERED AT 11:19:32 ON 05 SEP 2001
L1 688 S POLYKETIDE? (2W) (SYNTHAS? OR SYNTHETAS?)
L2 31 S L1 AND (LOAD?)
L3 5 S L2 AND (AVR OR AVERMECTIN)
L4 2 S L1 AND ((ACT OR ACTINORHODIN) (5W) PROMOTER)
L5 27 S L2 NOT L3 OR L4

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2001 ACS
AN 2000:15378 CAPLUS
TI Functional domains of polyketide synthetases and their use in the generation of novel synthetases and novel macrolide antibiotics
IN Leadlay, Peter Francis; Staunton, James; Cortes, Jesus; McArthur, Hamish Alastair Irvine
SO PCT Int. Appl., 97 pp.

L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2001 ACS
AN 1999:764178 CAPLUS
TI Sequence and recombinant narbonolide polyketide synthase applications from Streptomyces venezuelae for creation of useful antibiotics
IN Ashley, Gary; Betlach, Melanie C.; Betlach, Mary; McDaniel, Robert; Tang, Li
SO PCT Int. Appl., 98 pp.

L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2001 ACS
AN 1998:778803 CAPLUS
TI Novel erythromycins from a recombinant *Saccharopolyspora erythraea* strain NRRL 2338 pIG1. I. Fermentation, isolation and biological activity
AU Pacey, Michael S.; Dirlam, John P.; Geldart, Roderick W.; Leadlay, Peter F.; McArthur, Hamish A. I.; McCormick, Ellen L.; Monday, Robert A.; O'Connell, Thomas N.; Staunton, James; Winchester, Toby J.
SO J. Antibiot. (1998), 51(11), 1029-1034

L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2001 ACS
AN 1998:66007 CAPLUS
TI Manufacture of substituted erythromycins with transgenic *Saccharopolyspora* using a carboxylic acid-contg. medium
IN Leadlay, Peter Francis; Staunton, James; Cortes, Jesus; Pacey, Michael Stephen
SO PCT Int. Appl., 97 pp.

L3 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2001 ACS
AN 1998:48976 CAPLUS
TI Engineering broader specificity into an antibiotic-producing polyketide synthase
AU Marsden, Andrew F. A.; Wilkinson, Barrie; Cortes, Jesus; Dunster, Nicholas J.; Staunton, James; Leadlay, Peter F.
SO Science (Washington, D. C.) (1998), 279(5348), 199-202

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS
AN 2000:368562 CAPLUS
TI Epothilone and epothilone derivatives production based on recombinant nucleic acids encoding the epithilone polyketide synthase from *Sorangium cellulosum*
IN Julien, Bryan; Katz, Leonard; Khosla, Chaitan; Tang, Li; Ziermann, Rainer
SO PCT Int. Appl., 138 pp.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2001 ACS
AN 2000:138205 CAPLUS
TI A two-vector system for the production of recombinant polyketides in *Streptomyces*
AU Ziermann, R.; Betlach, M. C.
SO J. Ind. Microbiol. Biotechnol. (2000), 24(1), 46-50

L5 ANSWER 6 OF 27 CAPLUS COPYRIGHT 2001 ACS
AN 2001:50781 CAPLUS
TI Ketoacyl synthase domains useful for priming of polyketide synthases
IN Smith, Stuart; Joshi, Anil; Rangan, Vangipuram; Witkowski, Andrzej
SO PCT Int. Appl., 39 pp.

L5 ANSWER 7 OF 27 CAPLUS COPYRIGHT 2001 ACS
AN 2000:532232 CAPLUS
TI Substrate Specificity of the Loading Didomain of the Erythromycin Polyketide Synthase
AU Lau, Janice; Cane, David E.; Khosla, Chaitan
SO Biochemistry (2000), 39(34), 10514-10520

L5 ANSWER 10 OF 27 CAPLUS COPYRIGHT 2001 ACS
AN 2000:314815 CAPLUS
TI Gene cluster encoding oleandolide synthases from *Streptomyces antibioticus* and recombinant expression of hybrid genes encoding heterologous polyketide synthases
IN Betlach, Mary C.; Shah, Sanjay Krishnakant; McDaniel, Robert; Tang, Li
SO PCT Int. Appl., 86 pp.

L5 ANSWER 13 OF 27 CAPLUS COPYRIGHT 2001 ACS
AN 2000:15220 CAPLUS
TI Polyketides and their synthesis
IN Leadlay, Peter Francis; Staunton, James; Cortes, Jesus; McArthur, Hamish Alastair Irvine
SO PCT Int. Appl., 78 pp.

L5 ANSWER 14 OF 27 CAPLUS COPYRIGHT 2001 ACS
AN 1999:516473 CAPLUS
TI Conversion of a .beta.-Ketoacyl Synthase to a Malonyl Decarboxylase by Replacement of the Active-Site Cysteine with Glutamine
AU Witkowski, Andrzej; Joshi, Anil K.; Lindqvist, Ylva; Smith, Stuart
SO Biochemistry (1999), 38(36), 11643-11650

L5 ANSWER 15 OF 27 CAPLUS COPYRIGHT 2001 ACS
AN 1999:468634 CAPLUS
TI Chimeric polyketide synthase gene assembly construct
and its use in the synthesis of novel polyketides
IN Leadlay, Peter Francis; Staunton, James; Wilkinson, Barrie; Rowe,
Christine Janet; Bohm, Ines Ute; Buss, Antony David
SO PCT Int. Appl., 29 pp.

L5 ANSWER 22 OF 27 CAPLUS COPYRIGHT 2001 ACS
AN 1998:132500 CAPLUS
TI The loading domain of the erythromycin polyketide
synthase is not essential for erythromycin biosynthesis in
Saccharopolyspora erythraea
AU Pereda, Ana; Summers, Richard G.; Stassi, Diane L.; Ruan, Xiaoan; Katz,
Leonard
SO Microbiology (Reading, U. K.) (1998), 144(2), 543-553

L5 ANSWER 26 OF 27 CAPLUS COPYRIGHT 2001 ACS
AN 1994:403834 CAPLUS
TI Limited proteolysis and active-site studies of the first multienzyme
component of the erythromycin-producing polyketide
synthase
AU Aparicio, Jesus F.; Caffrey, Patrick; Marsden, Andrew F. A.; Staunton,
James; Leadlay, Peter F.
SO J. Biol. Chem. (1994), 269(11), 8524-8

L5 ANSWER 27 OF 27 CAPLUS COPYRIGHT 2001 ACS
AN 1990:173144 CAPLUS
TI Analysis of the nucleotide sequence of the *Streptomyces glaucescens* tcmI
genes provides key information about the enzymology of polyketide
antibiotic biosynthesis
AU Bibb, Mervyn J.; Biro, Sandor; Motamedi, Haideh; Collins, John F.;
Hutchinson, C. Richard
SO EMBO J. (1989), 8(9), 2727-36